AMENDMENTS TO THE CLAIMS

1-54. (Canceled)

- 55. (Currently amended) A semiconductor thin film according to claim 53126, wherein a height of each of said <u>resulting</u> micro-projections is in a range of about 20 nm or less.
- 56. (Currently amended) A semiconductor thin film according to claim 53126, wherein a diameter of each of said <u>resulting</u> micro-projections is in a range of <u>about</u> 0.1 µm or less.
- 57. (Currently amended) A semiconductor thin film according to claim 53126, wherein a radius of curvature of each of said <u>resulting</u> micro-projections is in-a range of about 60 nm or more.
- 58. (Currently amended) A semiconductor thin film according to claim $53\underline{126}$, wherein a density of said resulting micro-projections is in-a range of 1 × 1010 pieces/cm² about 1 x 10^{10} pieces/cm² or less.
 - 59. (Canceled)
 - 60. (Canceled)
- 61. (Currently amended) A semiconductor thin film according to claim 53126, wherein said semiconductor single crystal thin film is-made-of-non-single crystals, single crystals, or a combination thereof includes a polycrystalline semiconductor region.
- 62. (Currently amended) A semiconductor thin film according to claim $53\underline{126}$, wherein said semiconductor thin film contains a single crystal region having a size of $4 \times 40-8$ -cm2 about 1×10^{-8} cm² or more.

63. (Currently amended) A semiconductor thin film according to claim 53126, wherein said semiconductor single crystal thin film centains a single crystal region having an orientation plane which is either of the (100), (111), and (110) planes includes an amorphous semiconductor region.

64-125. (Canceled)

- 126. (Previously presented) A semiconductor thin film according to claim 53, further comprising:
- said <u>an</u> insulating base; and wherein[[:]]-said-semiconductor thin film comprises
- a polycrystalline <u>single crystal</u> thin film formed on said insulating base[[;]] by heat treating an amorphous semiconductor thin film to form a said polycrystalline thin film has <u>having</u> polycrystalline grains aligned in an approximately regular pattern forming initial micro-projections by uplift of some of said polycrystalline grains; and said micro-projections are each formed at a boundary position among at least three or more of said polycrystalline grains by collisions amongst the polycrystalline grains and by heat treating the polycrystalline thin film, said single crystal thin film having resulting micro-projections formed on a basis of some of the initial micro-projections.
- 127. (Currently amended) A semiconductor thin film according to claim 126, wherein said <u>resulting</u> micro-projections are aligned in an approximately regular pattern.
- 128. (Currently amended) A semiconductor thin film according to claim 126, wherein a thickness of said semiconductor thin film is in a range of <u>about</u> 50 nm or less.
- 129. (Currently amended) A semiconductor thin film according to claim 126, wherein a size of each of said polycrystalline grains is in a range of between about 0.1 µm to and about 4.0 µm.

130-181. (Canceled)

182. (New) A semiconductor thin film according to claim 126, wherein said single crystal thin film forms a top surface of the semiconductor thin film.